
Subject: Re: Rescaling byte (0-200) ndvi to -1 to 1 values
Posted by [Paul Van Delst\[1\]](#) on Thu, 19 Jul 2012 18:41:58 GMT
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On 07/19/12 14:18, Narnia wrote:

- > I'm using the eMODIS 10-day product from the USGS with this description: "MODIS NDVI data are stretched (mapped)
- > linearly (to byte values) as follows: [-1.0, 1.0] -> [0, 200] Invalid Values: 201 - 255
- >
- > NDVI = (value - 100) / 100; example: [(150 - 100) / 100 = 0.5 NDVI]"
- >
- > I am trying thus to scale the data in ENVI just using Band Math [expression:((b1-100)/100)] and all the values I get
- > are 0 across my entire image. Any thoughts as to why?

IDL> value = 150

IDL> help, (value - 100) / 100

<Expression> LONG = 0

IDL> value = 150.0

IDL> help, (value - 100) / 100

<Expression> FLOAT = 0.500000

>

- > Secondly, I need to do this for over 400 images; can someone suggest a quick script that can read and scale this data
- > in IDL? I tried 'ScaledImage' but i keep getting errors as well...

I would write one myself. Mostly since the scaling is just a one-line operation. At least you know you're getting the correct (or wrong) answer that way. :o)

cheers,

paulv
